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NOTICE OF ALLOWANCE AND FEE(S) DUE

54066

7500

09/10/2008

MURATA MANUFACTURING COMPANY, LTD. C/O KEATING & BENNETT, LLP 1800 Alexander Bell Drive SUITE 200 Reston, VA 20191

EXAMINER				
NGUYEN, THANH T				
ART UNIT	PAPER NUMBER			

2893

DATE MAILED: 09/10/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,945	07/13/2005	Yoshihiro Ito	36856.1310	4943

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/10/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

maintenance fee notifica	ttions.	·					correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee pap	(s) Transmittal. Thers. Each addition	is certi d paper	ficate cannot be used t	or domestic mailings of the for any other accompanying ent or formal drawing, mus
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C/O KEATING 1800 Alexander	& BENNETT, LLP	G COMPANY, LT	D. I he Stai add trar	ereby certify that the certify that the certify that the certification of the Mainsmitted to the USP	nis Fee(with sub l Stop TO (57	e of Mailing or Trans s) Transmittal is being fficient postage for fir ISSUE FEE address (1) 273-2885, on the d	inission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
SUITE 200 Reston, VA 201	91						(Depositor's name)
Reston, 771 201	,1						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/518,945	07/13/2005	•	Yoshihiro Ito			36856.1310	4943
TITLE OF INVENTION	: SEMICONDUCTOR I	DEVICE AND METHOD	FOR MANUFACTURIN	G SEMICONDUC	TOR I	DEVICE	
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/10/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
NGUYEN,	THANH T	2893	257-043000				
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p			1	
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PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	I THE PATENT (print or ty	pe)			
PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee		oatent. If an assign	nee is io	dentified below, the d	ocument has been filed for
(A) NAME OF ASSI	•	netion of this form is 140	(B) RESIDENCE: (CITY	0	COUNT	TRY)	
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Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporat	ion or other private gr	oup entity 🖵 Government
4a. The following fee(s)	are submitted:	41	o. Payment of Fee(s): (Plea	ase first reapply a	ny pre	viously paid issue fee	shown above)
Issue Fee	No small entity discount p	pormitted)	☐ A check is enclosed.☐ Payment by credit can	rd Form PTO 2020	2 ic att	ehad	
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5. Change in Entity Sta a. Applicant claim	i tus (from status indicate is SMALL ENTITY stati	/	☐ b. Applicant is no lon	nger claiming SMA	LL EN	ΓΙΤΥ status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than	-			ne assignee or other party ir
Authorized Signature				Date			
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an application. Confiden submitting the complete this form and/or suggest: Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Firginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	1.14. This collection is es depending upon the indi- e Chief Information Offic COMPLETED FORMS T	vidual case. Any coer, U.S. Patent and O THIS ADDRES:	minute ommen Trader S. SEN	ts to complete, including ts on the amount of ti mark Office, U.S. Dep D TO: Commissioner	ng gathering, preparing, and me you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450

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54066 75	90 09/10/2008	EXAMINER			
MURATA MAN	UFACTURING CO	NGUYEN, THANH T			
C/O KEATING & BENNETT, LLP		ART UNIT	PAPER NUMBER		
1800 Alexander Bell Drive SUITE 200 Reston, VA 20191			2893 DATE MAILED: 09/10/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 282 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 282 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
Notice of Allowability	10/518,945 Examiner	ITO ET AL. Art Unit				
•	Examiner	Air Oille				
	THANH T. NGUYEN	2893				
The MAILING DATE of this communication appeared all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not include inication will be mailed in due	ed course. THIS			
1. This communication is responsive to 6/5/08.						
2. The allowed claim(s) is/are <u>10,11,15,16 and 20-24</u> .						
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do	e been received. e been received in Applicatio	n No	tion from the			
International Bureau (PCT Rule 17.2(a)).						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF					
5. CORRECTED DRAWINGS (as "replacement sheets") must						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview St Paper No./ 7. ☐ Examiner's	formal Patent Application ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo	owance			
/Thanh T. Nguyen/						
Primary Examiner, Art Unit 2893						

The following is an examiner's statement of reasons for allowance:

Claims 10-11, 15-16, 20-24 are allowed because none of the prior art alone or in combination teaches or suggests the particular subset of the process steps in forming the at least one layer of thin film includes a multilayer film and the multilayer film defines a light-emitting layer; the multilayer film includes an n-type contact layer, an n-type clad layer, an active layer, a p-type clad layer and a p-type contact layer; and the n-type contact layer is a zinc oxide layer that is in contact with the zinc-polar surface of the single crystal substrate

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by Email via address Thanh.Nguyen@uspto.gov. The examiner can normally be reached on Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Davienne Monbleau, can be reached on (571) 272-1945. The fax phone number for this Group is (571) 273-8300.

Application/Control Number: 10/518,945

Art Unit: 2893

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to thy Private PAIR system, contact the Electronic Business center (EBC) at 866-217-9197 (toll-free).

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Application Number

	Application/Control No.	Applicant(s)/Patent under Reexamination		
	10/518,945			
Examiner		Art Unit		
	THANH T NGUVEN	2893		